

The LINERTEC logo is displayed in a bold, red, sans-serif font. The 'L' is significantly larger and more stylized than the other letters, which are in a standard weight. The entire logo is set against a background of a blue sky with white clouds and a modern glass skyscraper.

# LGP-300N Series **WinCE** Total Stations

## Total Surveying Solution

### LGP-302N/LGP-305N

- 500m Reflectorless EDM range
- Large easy to use color graphical touch display, alphanumeric key board
- Dual display as a standard equipment
- Easy transfer to a PC via USB mini, Bluetooth (class 2) and RS-232C data port
- Windows CE Total Stations 2" and 5" model



**Increase your  
work efficiency  
Faster Turnaround**



| Model                                 |                            | LGP-302N  | LGP-305N |
|---------------------------------------|----------------------------|---|----------|
| Telescope                             | Image                      | Erect   |          |
|                                       | Magnification              | 30 x  |          |
|                                       | Effective aperture         | 45mm  |          |
|                                       | Resolving power            | 3.0"  |          |
|                                       | Field of view              | 1°20'   |          |
|                                       | Minimum focus distance     | 1.0m  |          |
|                                       | Focus                      | Manual  |          |
| Distance measurement                  | Laser Class                | Visible Laser : Class IIIa ( Reflectorless, sheet ) / Class I ( Prism )   |          |
| Measurement range (Good condition) *3 | Reflectorless *1           | 500m  |          |
|                                       | Reflector sheet *2         | 800m  |          |
|                                       | Mini prism                 | 1200m   |          |
|                                       | Prism 1P                   | 3000m   |          |
|                                       | Prism                      | ±(2+2ppm x D)mm   |          |
| Accuracy                              | Reflector sheet            | ±(3+2ppm x D)mm   |          |
|                                       | Reflectorless              | 2.0m ~ 200m: ±(3+2ppm x D)mm  |          |
|                                       |                            | 200m ~ 300m: ±(5+2ppm x D)mm  |          |
|                                       |                            | 300m ~ 500m: ±(10+2ppm x D)mm   |          |
|                                       | Minimum count              | 0.1mm (Fine mode), 1mm (Normal/ Track mode)                               |          |
| Measurement time *4                   | Initial meas.              | Prism: 3.0"   |          |
|                                       |                            | Ref.sheet: ~300m 3.0" (over 300m ≥3.0")                                   |          |
|                                       |                            | Reflectorless: ~200m 3.0" (over 200m ≥3.0")                               |          |
|                                       | Repeat meas.               | Prism: 2.0"   |          |
|                                       |                            | Ref.sheet: 3.0"   |          |
| Angle measurement                     | Measuring method           | Absolute rotary encoder   |          |
|                                       | Detection method           | Vertical / Horizontal angle   |          |
|                                       |                            | 2 sides   |          |
|                                       | Minimum count              | 1" / 5"   |          |
|                                       | Accuracy (ISO17123-3)      | 2"  | 5"       |
| Compensator                           | Axis                       | 2 axis  |          |
|                                       | Range                      | ±3  |          |
| Tangent Screw                         |                            | 1 Seed/Clamping (<30")  |          |
| Sensitivity of vials                  | Plate level                | 30"/1 div. (electrical)   |          |
|                                       | Circular level             | 8/2mm   |          |
| Plummet                               |                            | Visible Laser, ±0.5mm (instrument height 1.5m)                            |          |
| Base                                  |                            | Detachable  |          |
| Dust and Water Protection             |                            | IP55 (instrument only)  |          |
| Ambient temperature                   |                            | -20°C ~ 50°C / -4°F ~ 122°F (Working range)                               |          |
| Tripod thread                         |                            | 5/8" x 11   |          |
| Dimensions/Weight                     | Dimensions                 | 183 (W) x 342 (H) x 167 (L)mm   |          |
|                                       | Weight (battery not incl.) | 5.4kgs.   |          |
| Carrying case                         | Dimensions / weight        | 440(W) x 370 (H) x 275 (L)mm / 3.9 kgs.                                   |          |
| Battery pack                          | Power source               | Li-ion 4400mAh  |          |
|                                       | Operation time             | Continuous approx. 8.0hrs (ETH+EDM) with approx. 2.5hrs. of charging time |          |
| Battery charger and AC Adapter        | Weight                     | 5400g   |          |
|                                       | Input voltage              | AC 100 ~ 240V   |          |
|                                       | Output voltage             | DC8.4V  |          |
| Data Process                          | CPU Memory/Clock frequency | Over 2GB/528MHZ   |          |
|                                       | OS                         | Microsoft Window CE 5.0   |          |
|                                       | Application software       | Selectable  |          |
| Display / Keyboard                    | I/F                        | RS232C, USB mini, Bluetooth(Class 2), USB Flash Drive                     |          |
|                                       | Display type               | 3.5" colour TFT LCD (320 x 240 dots) touch screen                         |          |
|                                       | Quantity                   | 2   |          |
| Display back light                    | Keys                       | 26 each   |          |
|                                       |                            | Yes   |          |
| Laser Pointer                         |                            | Yes   |          |
| Date clock                            |                            | Yes   |          |

### NOTE :

- \*1 The measurement range and accuracy of reflectorless, and time required to measure may vary by the shape, size of surface area and reflection rate of the target and its environment.  
The measurement range of reflectorless is determined by the white side of the Kodak Gray Card.
- \*2 Reflector sheet: Genuine Reflector sheet
- \*3 The measurement range may vary by conditions of the environment.  
Normal conditions: 20km visibility with slight shimmer  
Good conditions: 40km visibility with overcast, no heat, no shimmer and moderate wind.
- \*4 EDM measuring time is determined in good conditions. It may takes longer than usual to measure the distance exceeding 2000m in prism mode and 300m in reflectorless mode.

\* Specifications are subject to change without any notice

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The CE marking assures that this product complies with the requirements of the EC directive for safety.